

## **ABSTRACT OF THE DISCLOSURE**

Devices and systems having one or more of the following components: a compliant pillar with a modified tip surface (non-flat tip) and a corresponding compliant socket; an optical/electrical I/O interconnect and a corresponding compliant socket; a lens/waveguide optical pillar, a polymer bridge, and an L-shaped pillar, are described herein. In addition, methods of making these components and methods of using these components are disclosed herein.

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